

# Psychological Bulletin

JAMES DEESE, Editor  
*Johns Hopkins University*

## Editorial Consultants

BERNARD AGRANOFF	W. GRANT DAHLSTROM	HERBERT J. KLAUSMEIER	SEYMOUR ROSENBERG
ANNE ANASTASI	GERALD C. DAVISON	BENJAMIN KLEINMUNTZ	NEVITT SANFORD
NORMAN ANDERSON	PHILIP W. DRASH	NATHAN KOGAN	THEODORE SCHAEFER, JR.
BARBARA UEHLING ARCHER	JOHN EXNER	WALLACE LAMBERT	K. WARNER SCHIAIE
ELLIOT ARONSON	CARMEN FINLEY	ROBERT LA MOTTE	PAUL F. SECORD
ALEXANDER W. ASTIN	W. DAVID FOULKES	EDWARD E. LAWLER	ROBERT SEKULER
NATHAN AZRIN	WENDELL GARNER	HARRY LEVIN	CHARLES SPIELBERGER
ALBERT BANDURA	JAMES GIBSON	JANE LOEVINGER	D. A. SPROTT
DARYL J. BEM	ROBERT GLASER	KENNETH MACCORQUODALE	RICHARD E. STAFFORD
LEONARD BERKOWITZ	BERT GREEN	LEONARD MARASCUILLO	JOHN A. STERN
HUBERT BROGDEN	DAVID GREEN	DAVID MOSTOFSKY	HAROLD STEVENSON
DONN BYRNE	HAROLD GULLIKSEN	FRANK B. MURRAY	HANS H. STRUPP
CHARLES CANNELL	JOHN GUTHRIE	JEROME L. MYERS	RICHARD F. THOMPSON
GEORGE CARLTON	ROBERT HOGAN	CARNOY NELSON	LEONARD ULLMAN
ROBERT E. CARSON	JOHN HOLLAND	T. ERNEST NEWLAND	W. EDGAR VINACKE
JUDITH CATES	STANLEY IMBER	DAVID OLTON	MICHAEL WALLACH
LOREN J. CHAPMAN	LYLE JONES	JOHN OVERALL	CHARLES WARD
RICHARD CHRISTIE	RABI KANUNGO	GORDON L. PAUL	WAYNE WICKELGREN
RUSSELL M. CHURCH	HOWARD H. KENDLER	IRWIN POLLACK	LEON J. YARROW
GEORGE COLLIER	RICHARD A. KING	GEORGE REYNOLDS	ROBERT K. YOUNG
LEE CRONBACH			

---

## VOLUME 75, 1971

---

HELEN ORR   JEANNE McMANUS   HENRY S. SALMON   ROBERT D. GORMAN  
*Managing Editor   Technical Editor   Advertising and Business Manager   Subscription Manager*

PUBLISHED MONTHLY BY  
THE AMERICAN PSYCHOLOGICAL ASSOCIATION, INC.  
1200 SEVENTEENTH ST. N. W.  
WASHINGTON, D. C. 20036

Copyright © 1971 by the American Psychological Association, Inc.



## CONTENTS OF VOLUME 75

ALLEN, TERRY WALTER. See BRAINERD, CHARLES J.	
AUERBACH, ARTHUR H. See LUBORSKY, LESTER.	
BACHRACH, HENRY M. See LUBORSKY, LESTER.	
BASS, ALAN R. See EINHORN, HILLEL J.	
BISBEE, CHARLES T. See HARRIS, DAVID R.	
BOGARTZ, RICHARD S. Least Squares Methods for Locating Function Shifts and Disturbance Regions .....	294
BONNET, KENNETH. See GAITO, JOHN.	
BRAINERD, CHARLES J., AND ALLEN, TERRY WALTER. Experimental Inductions of the Conservation of "First-Order" Quantitative Invariants .....	128
BROGDEN, HUBERT E. Further Comments on the Interpretation of Factors .....	362
BRYAN, JAMES H., AND SCHWARTZ, TANIS. Effects of Film Material upon Children's Behavior .....	50
CAIRNCROSS, K. See DI GIUSTO, E. L.	
CARLSON, RAE. Where is the Person in Personality Research? .....	203
CHANDLER, MICHAEL. See LUBORSKY, LESTER.	
CHARTIER, GEORGE M. A-B Therapist Variable: Real or Imagined? .....	22
COHEN, JACOB. See LUBORSKY, LESTER.	
CONGER, ANTHONY J. Evaluation of Multimethod Factor Analysis .....	416
DAWSON, RONALD G. Retrograde Amnesia and Conditioned Emotional Response Incubation Reexamined .....	278
DI GIUSTO, E. L., CAIRNCROSS, K., AND KING, M. G. Hormonal Influences on Fear-Motivated Responses .....	432
DRABMAN, RONALD. See O'LEARY, DANIEL K.	
EINHORN, HILLEL J., AND BASS, ALAN R. Methodological Considerations Relevant to Discrimination in Employment Testing .....	261
ESPOSITO, NICHOLAS J., AND PELTON, LEROY H. Review of the Measurement of Semantic Satiation .....	330
EVANS, SELBY H. See HARRIS, DAVID R.	
FREEMAN, BETTY JO. Behavioral Contrast: Reinforcement Frequency or Response Suppression? .....	347
GAITO, JOHN, AND BONNET, KENNETH. Quantitative versus Qualitative RNA and Protein Changes in the Brain during Behavior .....	109
GAMES, PAUL A. Inverse Relation between the Risks of Type I and Type II Errors and Suggestions for the Unequal <i>n</i> Case in Multiple Comparisons .....	97
GOULET, L. R. Basic Issues in Reversal-Shift Behavior: A Reply to Kendler and Kendler .....	286
GRIER, J. BROWN. Nonparametric Indexes for Sensitivity and Bias: Computing Formulas ..	424
GROSSER, GEORGE S., AND SIEGAL, ANDREW W. Emergence of a Tonic-Phasic Model for Sleep and Dreaming: Behavioral and Physiological Observations .....	60
HARRIS, CHESTER W. On Brogdens Interpretation of Factors .....	360
HARRIS, DAVID R., BISBEE, CHARLES T., AND EVANS, SELBY H. Further Comments—Misuse of Analysis of Covariance .....	220
JACKSON, DOUGLAS N. Comments on "Evaluation of Multimethod Factor Analysis" .....	421
JENSEN, ARTHUR R. Note on Why Genetic Correlations are not Squared .....	223
JOE, GEORGE W. Comment on Overall and Spiegel's "Least Squares Analysis of Experimental Data" .....	364
JONES, MARSHALL B. Heritability as a Criterion in the Construction of Psychological Tests ..	92
KAUFMAN, H., AND LEVY, ROBERT M. Analysis of the Combination of Perceptual Dimensions .....	369
KAVANAGH, MICHAEL J., MACKINNEY, ARTHUR C., AND WOLINS, LEROY. Issues in Managerial Performance: Multitrait-Multimethod Analyses of Ratings .....	34
KENDLER, HOWARD H., AND KENDLER, TRACY S. Definitely, Our Last Word! .....	290
KENDLER, TRACY S. See KENDLER, HOWARD H.	
KING, M. G. See DI GIUSTO, E. L.	
LEE, WAYNE. Preference Strength, Expected Value Difference, and Expected Regret Ratio ..	186

## CONTENTS OF VOLUME 75

LEVY, ROBERT M. See KAUFMAN, H.	
LINN, ROBERT L. See WERTS, CHARLES E.	
LUBORSKY, LESTER, CHANDLER, MICHAEL, AUERBACH, ARTHUR H., COHEN, JACOB, AND BACHRACH, HENRY M. Factors Influencing the Outcome of Psychotherapy: A Review of Quantitative Research .....	145
MACKINNEY, ARTHUR C. See KAVANAGH, MICHAEL J.	
MACRAE, ALEX W. On Calculating Unbiased Information Measures .....	270
MARKLEY, O. W. Latitude of Rejection: An Artifact of Own Position .....	357
MURRAY, DAVID C. Talk, Silence, and Anxiety .....	244
O'LEARY, K. DANIEL, AND DRABMAN, RONALD. Token Reinforcement Programs in the Classroom: A Review .....	379
OVER, RAY. Comparison of Normalization Theory and Neural Enhancement of Negative Aftereffects .....	225
PELTON, LEROY H. See ESPOSITO, NICHOLAS J.	
RAZIN, ANDREW M. A-B Variable in Psychotherapy: A Critical Review .....	1
RICHARDSON, JACK. Cue Effectiveness and Abstraction in Paired-Associate Learning .....	73
RUSSELL, P. A. "Infantile Stimulation" in Rodents: A Consideration of Possible Mechanisms .....	192
SANDELL, ROLF GUNNAR. Note on Choosing between Competing Interpretations of Cross-Lagged Panel Correlations .....	367
SCHWARTZ, TANIS. See BRYAN, JAMES H.	
SHULMAN, HARVEY G. Similarity Effects in Short-Term Memory .....	399
SIEGAL, ANDREW W. See GROSSER, GEORGE S.	
THIESSEN, D. D. Reply to Wilcock on Gene Action and Behavior .....	103
WERTS, CHARLES E., AND LINN, ROBERT L. Causal Assumptions in Various Procedures for the Least Squares Analysis of Categorical Data .....	430
WILCOCK, JOHN. Gene Action and Behavior: A Clarification .....	106
WOLINS, LEROY. See KAVANAGH, MICHAEL J.	
ZUCKERMAN, MARVIN. Physiological Measures of Sexual Arousal in the Human .....	297

# Psychological Bulletin

JAMES DEESE, Editor  
*Johns Hopkins University*

## Editorial Consultants

LYNN R. ANDERSON	NATHANIEL L. GAGE	DANIEL S. LEHRMAN	JULIUS SEEMAN
NORMAN K. ANDERSON	GOLDINE GLESER	ALLAN M. LEVENTHAL	MARVIN E. SHAW
DOROTHY C. ATKINS	LEON GLESER	MICHAEL LEWIS	THOMAS J. SHUELL
FRANK BARRON	VIVIAN GOUREVITCH	DONALD B. LINDSLEY	IRWIN SILVERMAN
JOHN BARTKO	MELVIN GRAVITZ	ROBERT LINN	NORMAN SPEAR
ELLIOTT BLASS	BERT GREEN	RICHARD A. LITTMAN	CHARLES SPIELBERGER
R. D. BLOCK	JAMES GREENO	FREDERICK M. LORD	JULIAN STANLEY
RICHARD BOGARTZ	WILLIAM W. GRINGS	DAVID LYKKEN	RALPH M. STOGDILL
JOSEPH BRADY	ROBERT M. GUION	MURRAY S. MIRON	BRYAN STREPP
E. J. CAPALDI	MASON HAIRE	WALTER MISCHEL	CHARLES TART
JOHN B. CARROLL	DAVID HEISE	JAMES MYER	DAVID R. THOMAS
ROSALIND CARTWRIGHT	WINIFRED HILL	ARLO MYERS	LARRY W. THOMPSON
ALPHONSE CHAPANIS	JERRY HIRSCH	ALLEN NEWELL	HARRY C. TRIANDIS
ANTHONY J. CONGER	PAUL HOFFMAN	MERRILL NOBLE	ELLIOT S. VALENSTEIN
EMORY COWAN	STEWART HULSE	WALTER OBRIST	WILLIAM E. VINACKE
FRANK J. DEIDEK	MARVIN IVERSON	DAVID OLTON	JOHN VOLKMAN
WILLIAM N. DEMBER	F. H. KANFER	JOHN OVERALL	ALLAN WAGNER
CLINTON DESOTO	DANIEL P. KIMBLE	DAVID PALERMO	MICHAEL A. WALLACH
JAMES DINSMOOR	HERBERT KLAUSMEIER	HAROLD B. PEPINSKY	ROGER WEBB
STARKEY DUNCAN	EDMUND T. KLEMMER	E. J. PHARES	JERRY S. WIGGINS
ROBERT EBEL	SAMUEL J. KOMORITA	LYMAN PORTER	DAVID G. WINTER
HOWARD EGETH	ROY LACHMAN	MALCOLM PRESTON	JOHN WOODMANSEE
DORIS ENTWISTLE	WALLACE LAMBERT	MILTON ROSENBAUM	EDWARD ZIEGLER
ALBERT ERLEBACHER	PETER LANG	IRWIN G. SARASON	JOSEPH ZUBIN
JOSEPH FLEISS	ROBERT LEEPER	WARNER K. SCHAIK	

---

## VOLUME 76, 1971

---

HELEN ORR JEANNE McMANUS HENRY S. SALMON ANNE REDMAN  
*Managing Editor Technical Editor Advertising and Business Manager Subscription Manager*

PUBLISHED MONTHLY BY  
THE AMERICAN PSYCHOLOGICAL ASSOCIATION, INC.  
1200 SEVENTEENTH ST. N. W.  
WASHINGTON, D. C. 20036

Copyright © 1971 by the American Psychological Association, Inc.



## CONTENTS OF VOLUME 76

BANKS, WILLIAM P. Confidence-Rated Recall, $d_r$ , and Tests of Bernbach's Finite-State Theory in Recall .....	151
BENTLER, P. M., JACKSON, DOUGLAS, N., AND MESSICK, SAMUEL. Identification of Content and Style: A Two-Dimensional Interpretation of Acquiescence .....	186
BERNBACH, HARLEY A. Invariance of $d^*$ in Memory .....	149
BIGLAN, ANTHONY. See MITCHELL, TERENCE R.	
BLOCK, JACK. On Further Conjectures Regarding Acquiescence .....	205
BREIN, MICHAEL, AND DAVID, KENNETH H. Intercultural Communication and the Adjustment of the Sojourner .....	215
BRIGHAM, JOHN C. Ethnic Stereotypes .....	15
BROWN, SAM C. See ROENKER, DANIEL L.	
CLARK, RUSSELL D., III. Group-Induced Shift toward Risk: A Critical Appraisal .....	251
COLE, MICHAEL. See FRANKEL, FREDERICK.	
DAVID, KENNETH H. See BREIN, MICHAEL.	
DAVISON, GERALD C. See WILSON, G. TERENCE.	
FIEDLER, FRED E. Validation and Extension of the Contingency Model of Leadership Effectiveness: A Review of Empirical Findings .....	128
FLEISS, JOSEPH L. Measuring Nominal Scale Agreement among Many Raters .....	378
FRANKEL, FREDERICK, AND COLE, MICHAEL. Measures of Category Clustering in Free Recall .....	39
FURTH, HANS G. Linguistic Deficiency and Thinking: Research with Deaf Subjects 1964-1969 .....	58
GRUVER, GENE GARY. College Students as Therapeutic Agents .....	111
HEBB, D. O. Comment on Altruism: The Comparative Evidence .....	409
HUMMEL, THOMAS J., AND SLIGO, JOSEPH R. Empirical Comparison of Univariate and Multivariate Analysis of Variance Procedures .....	49
HUNT, RAYMOND G. See LICHTMAN, CARY M.	
JACKSON, DOUGLAS N. See BENTLER, P. M.	
JONES, EDWARD E., AND SIGALL, HAROLD. The Bogus Pipeline: A New Paradigm for Measuring Affect and Attitude .....	349
JONES, MARI RIESS. From Probability Learning to Sequential Processing: A Critical Review .....	153
KAHNEMAN, DANIEL. See TVERSKY, AMOS.	
KREBS, DENNIS. Infrahuman Altruism .....	411
LICHTMAN, CARY M., AND HUNT, RAYMOND G. Personality and Organization Theory: A Review of Some Conceptual Literature .....	271
LIGHT, RICHARD J. Measures of Response Agreement for Qualitative Data: Some Generalizations and Alternatives .....	365
LOCKE, EDWIN A. Is "Behavior Therapy" Behavioristic? (An Analysis of Wolpe's Psychotherapeutic Methods) .....	318
MATHEWS, ANDREW M. Psychophysiological Approaches to the Investigation of Desensitization and Related Procedures .....	73
MCGHEE, PAUL E. Development of the Humor Response: A Review of the Literature .....	328
MESSICK, SAMUEL. See BENTLER, P. M.	
MITCHELL, TERENCE R., AND BIGLAN, ANTHONY. Instrumentality Theories: Current Uses in Psychology .....	432
ROBBINS, DONALD. Partial Reinforcement: A Selective Review of the Alleyway Literature .....	415
ROENKER, DANIEL L., THOMPSON, CHARLES P., AND BROWN, SAM C. Comparison of Measures for the Estimation of Clustering in Free Recall .....	45
SCHMIDT, RICHARD A. Proprioception and the Timing of Motor Responses .....	383
SIGALL, HAROLD. See JONES, EDWARD E.	

CONTENTS OF VOLUME 76

SLIGO, JOSEPH R. See HUMMEL, THOMAS J.	
SPRINGER, R. M. See TATE, J. D.	
STRAHAN, ROBERT F. A Coefficient of Directional Correlation for Time-Series Analysis .....	211
TATE, J. D., AND SPRINGER, R. M. Effects of Memory Time on Successive Judgments .....	394
THOMPSON, CHARLES P. See ROENKER, DANIEL L.	
TVERSKY, AMOS, AND KAHNEMAN, DANIEL. Belief in the Law of Small Numbers .....	105
VINOKUR, AMIRAM. Review and Theoretical Analysis of the Effects of Group Processes upon Individual and Group Decisions Involving Risk .....	231
WILKINS, WALLACE. Desensitization: Social and Cognitive Factors Underlying the Effectiveness of Wolpe's Procedure .....	311
WILSON, G. TERENCE, AND DAVISON, GERALD C. Processes of Fear Reduction in Systematic Desensitization .....	1
WINE, JERI. Test Anxiety and Direction of Attention .....	92
ZEDECK, SHELDON. Problems with the Use of "Moderator" Variables .....	295

